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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-PR-W.No.15-2014-15

Date: 18.06.2014

TEST REPORT

CLIENT	:	**Asst.Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri.Pradeep,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements & Construction of Culverts & Damaged Covering slab in Dasarahalli Ward No.15, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/171/2013-14 Dated:19.12.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

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Job No.: CECTC-PR-W.No.15-2014-15 Date : 18.06.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst.Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri.Pradeep,** Contractor, Bangalore.

Name of Work : Improvements & Construction of Culverts & Damaged Covering slab in Dasarahalli Ward No.15, BBMP, Bangalore.

Reference : EE/DD/WO/171/2013-14 Dated:19.12.2013

Date of Testing : 18.06.2014

Material : Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	114	11.40	19.80	80.2	75-100
1.18	152	15.20	35.00	65.0	55-90
600 Micron	161	16.10	51.10	48.9	35-59
300 Micron	236	23.60	74.70	25.3	8-30
150 Micron	202	20.20	94.90	5.1	0-10

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Job No.: CECTC-PR-W.No.15-2014-15 Date : 18.06.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst.Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri.Pradeep,** Contractor, Bangalore.

Name of Work : Improvements & Construction of Culverts & Damaged Covering slab in Dasarahalli Ward No.15, BBMP, Bangalore.

Reference : EE/DD/WO/171/2013-14 Dated:19.12.2013

Date of Testing : 18.06.2014

Material : 40mm Aggregates

Total wt. of aggregates in gms = **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	371	2.47	2.47	97.53	95-100
20	8429	56.19	58.67	41.33	30-70
10	3380	22.53	81.20	18.80	10-35
4.75	2475	16.50	97.70	2.30	0-5

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Job No.: CECTC-PR-W.No.15-2014-15 Date : 18.06.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst.Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri.Pradeep,** Contractor, Bangalore.

Name of Work : Improvements & Construction of Culverts & Damaged Covering slab in Dasarahalli Ward No.15, BBMP, Bangalore.

Reference : EE/DD/WO/171/2013-14 Dated:19.12.2013

Date of Testing : 18.06.2014

Material : 20mm Aggregates

Total wt. of aggregates in gms = **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	204	4.1	4.1	95.9	95-100
10	2560	51.2	55.3	44.7	25-55
4.75	1874	37.5	92.8	7.2	0-10

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Job No.: CECTC-PR-W.No.15-2014-15 Date: 20.06.2014

PRECAST SLAB (CORE) TEST REPORT

Client	:	**Asst.Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Contractor	:	**Sri.Pradeep,** Contractor, Bangalore.
Name of Work	:	Improvements & Construction of Culverts & Damaged Covering slab in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	:	EE/DD/WO/171/2013-14 Dated:19.12.2013
No.of Sample Tested	:	03
Date of Testing	:	20.06.2014
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.425	2546.48	1.70	0.960	31.70	16.14	17.44	16.74	20.92
2	50.00	75.00	0.360	2444.62	1.50	0.960	34.70	17.67	19.09	18.32	22.90
3	50.00	80.00	0.410	2610.14	1.60	0.960	33.10	16.86	18.21	17.48	21.85

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Job No.: CECTC-PR-W.No.15-2014-15 Date: 23.07.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst.Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Contractor	: **Sri.Pradeep,** Contractor, Bangalore.
Name of the work	: Improvements & Construction of Culverts & Damaged Covering slab in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	: EE/DD/WO/171/2013-14 Dated:19.12.2013
Sample ID	: Reinforced Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.06.2014	23.07.2014	8.167	489.2	21.74
2	25.06.2014	23.07.2014	8.149	516.4	22.95
3	25.06.2014	23.07.2014	8.152	504.7	22.43

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Job No.: CECTC-PR-W.No.15-2014-15 Date: 23.07.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst.Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Contractor	: **Sri.Pradeep,** Contractor, Bangalore.
Name of the work	: Improvements & Construction of Culverts & Damaged Covering slab in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	: EE/DD/WO/171/2013-14 Dated:19.12.2013
Sample ID	: Reinforced Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.06.2014	23.07.2014	8.174	501.6	22.29
2	25.06.2014	23.07.2014	8.169	517.8	23.01
3	25.06.2014	23.07.2014	8.182	521.2	23.16

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